



Woman Owned Business

Aztech Environmental

TECHNOLOGIES

5 McCrea Hill Road • Ballston Spa, New York 12020

Mr. Donald Duthaler, Jr., P.E., CPM
Vice President of Operations
Baker Capital, L.P.
One West Red Oak Lane
White Plains, NY 10604

June 20, 2016

RE: Sub-Slab Depressurization System (SSDS) – 2016 Annual Inspection

Dear Mr. Duthaler,

Aztech Environmental Technologies, Inc. (Aztech) is pleased to provide a summary of the findings of the annual Sub-Slab Depressurization System (SSDS) inspection. The purpose of this letter is to summarize any notable activity or changes to the three (3) SSDSs as well as provide the findings of the annual SSDS inspection for the year 2016. In addition to any changes or deficiencies identified, recommendations for improvements are provided as necessary.

The three (3) SSDS installed at 510 Furnace Dock Road (the site) located in Cortlandt Manor, New York have been operational since their installation in December of 2011. Each of the three (3) individual systems is comprised of two (2) sub-slab vapor extraction points. The northern system is equipped with Radonaway HS-5000 fan unit, and the central and southern systems are equipped with Radonaway HS-2000 fan units. Each system is equipped with a pressure indicating alarm which illuminates a light in the event that the vacuum inside of the system falls below 0.25 inches of water column. All plumbing was completed using three-inch Schedule 40 PVC pipe and solvent-welded fittings. The three (3) fans were mounted securely to the roof and all piping was installed on a pitch to allow any condensation to flow back into the ground beneath the building's slab.

It is noted that building maintenance staff confirm the system's operation regularly by checking the status of the vacuum indicator alarms which are positioned inside of a centrally located broom closet. In the event of an alarm, Aztech would be contacted and a technician would be deployed to the site to determine the cause. Since the last annual inspection, there have not been any reported alarms.

On May 26th 2016, Aztech personnel conducted a routine inspection of the three (3) SSDSs previously installed at the site. The system inspection consisted of checking various components of the systems. Aztech personnel visually inspected all of the exposed piping connections to

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confirm that the solvent-welded joints have not become loose or disconnected. The support for the piping located on the roof was checked to ensure that there were no depressions in the pipes and that the lengths of piping continue to pitch back to the extraction points beneath the building slab. All three (3) system fans located on the roof were inspected to confirm their operational status as well as the rigidity of the mounting brackets. The electrical conduits were also checked and all system failure alarms were tested to confirm operational status.

It was identified that a portion of the rigid conduit which carries power to the exterior electrical outlets was disjointed at a fitting. The cause of the issue is unknown but upon identification, the electrician who conducted the installation was contacted and a repair was completed.

There were no other deficiencies, changes, or issues identified during the inspection of the systems. All systems appear to be operating as intended. There are no recommendations to alter or modify the systems or their maintenance at this time. Attached is the field inspection log.

Please feel free to contact Aztech if you have any questions.

Sincerely,

AZTECH ENVIRONMENTAL TECHNOLOGIES, INC.



Joseph J. Sabanos

Engineering Manager



Seen here is a separation in the rigid conduit that conveys power to the Northern Fan. This was likely caused due to snow accumulation/melting cycles and frost heaving. The separation was repaired.



Seen here is the rigid conduit that conveys power to the Northern Fan after repairs were completed.

**System Inspection Field Form
Soil Vapor Mitigation Systems**

SVE SYSTEMS INSPECTION FORM

Post Commissioning, Routine or Non-Routine Inspections (circle one)

Date of Inspection: 5/26/2016

Date of Previous Inspection: _____

Address: Furnace Dock Road Cortlandt Manor, NY Tracking Number: _____

Equipment Documentation

As Found		Manometer Reading (In. H ₂ O)	
SVE System	Fan Model	Prior	Current
1-Northern	HS-5000	-	11
2-Central	HS-2000	-	12
3-Southern	HS-2000	-	10

As Left		Manometer Reading (In. H ₂ O)	
SVE Sys-tem	Fan Model	Prior	Current
1-Northern	HS5000	-	11
2-Central	HS2000	-	12
3-Southern	HS2000	-	10

Fan Check

- Are all fans in operation?
Is there a differential pressure shown in U-Tube manometer?
 If yes, provide readings above.
Is each fan mounted securely?
Are coupling connections secure?
Is excessive noise heard when fan is running?
Does each fan induce suction when running?
Is switch is locked in the ON position?
Does smoke enter joints?
 If yes: Was joint re-sealed?
Does smoke enter re-sealed joint?

As Found		As Left	
Yes	No	Yes	No
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Piping Check

- Is glue evident at joints?
Are system suction points sealed?
Is piping system properly supported?
Are valves and manometers installed at proper locations?
Is excessive noise heard in piping joints?
Were piping modifications and 10% of old joints smoke tested?
Does smoke enter joints?
 If yes: Was joint re-sealed?
Does smoke enter re-sealed joint?

Yes	No	Yes	No
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Slab Check

- Have new floor cracks appeared since the last inspection?
Was each identified slab crack, repair, or modification smoke tested?

Yes	No	Yes	No
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Does smoke enter?

If yes: Was area re-sealed with approved sealant*?

Does smoke enter re-sealed area?

Electrical Check

Are electrical wires and connections secure?

Is each junction box closed?

Are conduit properly supported?

Are switch boxes locked?

Does each fan start when the switch is ON position?

Does each fan stop when the switch is in OFF position?

Are mitigation system labels applied?

Are the correct labels applied in the proper locations?

Have the following items changed since the last visit?

	No	Yes	If yes, explain...
Building Footprint	<u>X</u>		
Ownership	<u>X</u>		

If any of these items have changed, a redesign may be required.
Contact the maintenance supervisor for field review.

Deviations/Comments

No Smoke test conducted due to the
Sensitivity of work performed inside of the
building. All exposed joints were visually
inspected. All supports inspected.
Fans appear to be operational.
* Disjuncted conduit identified on roof.

Performed by: L B Date: 5/26/16